APPARATUS AND METHODS FOR MAGNETIC SEPARATION

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RELATED APPLICATIONS

[0001] This application is a division of Application No. 09/376,686, filed August 18, 1999, now US Patent 6,361,749 which claims the priority of US Provisional Application No.60/098,021, filed August 18, 1998.

FIELD OF THE INVENTION

[0002] The present inventions relates to the field of bioparticle isolation. More specifically, the invention provides novel magnetic separation devices and methods for isolating magnetically labeled substances of interest from a non-magnetic test medium by means of high gradient magnetic separation (HGMS).

BACKGROUND OF THE INVENTION

[0003] Magnetic separators and methods of separation of magnetic particles from non-magnetic media have been described for use in a variety of laboratory and clinical procedures involving biospecific affinity reactions. Such reactions are commonly employed in testing biological samples, such as bodily fluids like blood, bone marrow, leukapheresis products, spinal fluid or urine, for the determination of a wide range of target substances, especially biological entities